



## SEQUENCE LISTING

## (1) GENERAL INFORMATION:

- (i) APPLICANT: Rubin, S.A.  
Yednock, Ted A.  
Carbone, Katherine M.
- (ii) TITLE OF INVENTION: Treatment of Viral Encephalitis by  
Agents Blocking Alpha-4 Integrin Function
- (iii) NUMBER OF SEQUENCES: 5
- (iv) CORRESPONDENCE ADDRESS:  
(A) ADDRESSEE: Townsend and Townsend and Crew LLP  
(B) STREET: Two Embarcadero Center, Eighth Floor  
(C) CITY: San Francisco  
(D) STATE: California  
(E) COUNTRY: USA  
(F) ZIP: 94111-3834
- (v) COMPUTER READABLE FORM:  
(A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:  
(A) APPLICATION NUMBER: US 09/010,377  
(B) FILING DATE: 21-JAN-1998  
(C) CLASSIFICATION:
- a'* (viii) ATTORNEY/AGENT INFORMATION:  
(A) NAME: Liebeschuetz, Joe  
(B) REGISTRATION NUMBER: 37,505  
(C) REFERENCE/DOCKET NUMBER: 015270-004300US
- (ix) TELECOMMUNICATION INFORMATION:  
(A) TELEPHONE: (415) 576-0200  
(B) TELEFAX: (415) 576-0300

## (2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 106 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
- |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ile | Gln | Met | Thr | Gln | Ser | Pro | Ser | Ser | Leu | Ser | Ala | Ser | Val | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Asp | Arg | Val | Thr | Ile | Thr | Cys | Lys | Thr | Ser | Gln | Asp | Ile | Asn | Lys | Tyr |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     |     | 30  |     |
- 29*

Met Ala Trp Tyr Gln Gln Thr Pro Gly Lys Ala Pro Arg Leu Leu Ile  
 35 40 45

His Tyr Thr Ser Ala Leu Gln Pro Gly Ile Pro Ser Arg Phe Ser Gly  
 50 55 60

Ser Gly Ser Gly Arg Asp Tyr Thr Phe Thr Ile Ser Ser Leu Gln Pro  
 65 70 75 80

Glu Asp Ile Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp Asn Leu Trp Thr  
 85 90 95

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
 100 105

## (2) INFORMATION FOR SEQ ID NO:2:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 123 amino acids  
 (B) TYPE: amino acid  
 (C) STRANDEDNESS:  
 (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: protein

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Asn Ile Lys Asp Thr  
 20 25 30

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met  
 35 40 45

Gly Arg Ile Asp Pro Ala Asn Gly Tyr Thr Lys Tyr Asp Pro Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Ala Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Gly Tyr Tyr Gly Asn Tyr Gly Val Tyr Ala Met Asp Tyr  
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
 115 120

## (2) INFORMATION FOR SEQ ID NO:3:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 15 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: peptide

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1..6
- (D) OTHER INFORMATION: /product= "OTHER"  
/note= "Xaa at positions 1-6 may be present or absent, with the proviso that the entire peptide is not more than 11 amino acids"

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 7
- (D) OTHER INFORMATION: /product= "OTHER"  
/note= "Xaa = Tyr or Phe"

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 8
- (D) OTHER INFORMATION: /product= "OTHER"  
/note= "Xaa = Gly or Glu"

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 10..15
- (D) OTHER INFORMATION: /product= "OTHER"  
/note= "Xaa at positions 10-15 may be present or absent, with the proviso that the entire peptide is not more than 11 amino acids"

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15

## (2) INFORMATION FOR SEQ ID NO:4:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: peptide

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1..6
- (D) OTHER INFORMATION: /product= "OTHER"  
/note= "Xaa at positions 1-6 may be present or absent, with the proviso that the entire peptide is not more than 11 amino acids"

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 7
- (D) OTHER INFORMATION: /product= "OTHER"  
/note= "Xaa = Tyr or Phe"

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 8
- (D) OTHER INFORMATION: /product= "OTHER"  
/note= "Xaa = Gly or Glu"

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 10..15
- (D) OTHER INFORMATION: /product= "OTHER"  
/note= "Xaa at positions 10-15 may be present or absent, with the proviso that the entire peptide is not more than 11 amino acids"

## (ix) FEATURE:

- a'
- (A) NAME/KEY: Modified-site
  - (B) LOCATION: 16..21
  - (D) OTHER INFORMATION: /product= "OTHER"  
/note= "Xaa at positions 16-21 may be present or absent, with the proviso that the entire peptide is not more than 11 amino acids"

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 22
- (D) OTHER INFORMATION: /product= "OTHER"  
/note= "Xaa = Tyr or Phe"

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 23
- (D) OTHER INFORMATION: /product= "OTHER"  
/note= "Xaa = Gly or Glu"

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 25..30
- (D) OTHER INFORMATION: /product= "OTHER"  
/note= "Xaa at positions 25-30 may be present or absent, with the proviso that the entire peptide is not more than 11 amino acids"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
20 25 30

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Modified-site  
(B) LOCATION: 1..7  
(D) OTHER INFORMATION: /product= "OTHER"  
/note= "Xaa at positions 1-7 may be  
present or absent, with the proviso that  
the entire peptide is not more than 9  
amino acids"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site  
(B) LOCATION: 12..18  
(D) OTHER INFORMATION: /product= "OTHER"  
/note= "Xaa at positions 12-18 may be  
present or absent, with the proviso that  
the entire peptide is not more than 9  
amino acids"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Val Ser Phe Xaa Xaa Xaa Xaa Xaa  
1 5 10 15  
Xaa Xaa